



CONSTRUCTION EQUIPMENT

SW0064724 VOLVO A45G 352705 - DIESEL ENGINE



Sample No: VCP411895
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO064724



SAMPLE INFORMATION

Sample Number	VCP411895	VCP402783	VCP380766	VCP379726
Sample Date	09 Aug 2023	14 Apr 2023	17 Jan 2023	18 Oct 2022
Machine Hours	4958	4480	3993	3475
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.4	12.5	12.7	12.8
Base Number (BN)	mg KOH/g	10.1	9.9	10.5	11.3
Oxidation (PA)	%	80	79	78	84

CONTAMINATION

Soot %	%	0.2	0.2	0.3	0.3
Nitration (PA)	%	55	56	58	62
Sulfation (PA)	%	61	61	61	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	5	4
Sodium	ppm	0	<1	0	0
Potassium	ppm	1	<1	0	0

WEAR METALS

Iron	ppm	6	7	4	8
Copper	ppm	11	9	9	43
Lead	ppm	<1	<1	0	<1
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	2	0	<1	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	40	41	40	37
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1629	1721	1593	1630
Magnesium	ppm	461	524	483	509
Zinc	ppm	1069	1131	972	1033
Phosphorus	ppm	900	960	832	863
Barium	ppm	2	0	0	0
Boron	ppm	58	57	53	45

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Depot: SAIBIR
Unique No: 10607029
Signed: Don Baldrige
Report Date: 18 Aug 2023



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GRAPHS

